

Past Recipients for the Zumberge Individual/Interdisciplinary Awards

2007-08 Interdisciplinary Awards

Anne Balsamo, School of Cinematic Arts, Doug Thomas, Annenberg School of Communication, and Milind Tambe, Dept. of Computer Science.

"Cultivating Interdisciplinary Technology Innovation: Collaboratory for Technology and Culture at USC."

Antoine Bechara, Department of Psychology, Ann Crigler, Department of Political Science, Joseph Priester, Marshall School of Business, Thomas Lyon, Gould School of Law, Sheila Murphy, Annenberg School of Communication.

"Emotion, Decisionmaking, and the Brain."

Lynne Casper, Sociology and Eileen Crimmins, School of Gerontology.

"Generating Sustained Funding for Interdisciplinary Research via the Southern California Population Research Center."

Yang Chai, School of Dentistry and Joseph Hacia, Institute for Genetic Medicine.

"Global Analysis of TGF-Beta Signaling-mediated Cell Cycle Regulators During Palatogenesis."

Dolph Ellefson, Department of Obstetrics and Gynecology, Stan Louie, School of Pharmacy, Kathy Rodgers, Department of Obstetrics and Gynecology, and Gere diZerega, Department of Obstetrics and Gynecology.

"Pilot Study: Angiotensin (1-7) Mediated Recovery from Radiation Exposure."

Phil Ethington, Dept. of History and Tara McPherson, School of Cinematic Arts.

"USC Institute for the Digital Arts and Humanities".

Beth Fisher, Dept. of Biokinesiology and Physical Therapy, Michael Arbib, Dept. of Computer Science, and Richard Leahy, Dept. of Electrical Engineering.

"Exercise-induced neuroplasticity in individuals with Parkinsons".

Henryk Flashner, Department of Aerospace and Mechanical Engineering, Jill McNitt-Gray, Department of Kinesiology, Xiaoming Wang, Department of Biological Sciences, and Reyes Enciso, School of Dentistry.

"Computation of Loads on the Musculoskeletal System of Humans and Animals Using 3-D Modeling."

Todd Grappone, USC Libraries, and Ronald McCurdy, Thornton School of Music.

"Gospel Music History Archive."

Steven Goodman, School of Dentistry, Katrina Edwards, Dept. of Biological Sciences, and Steven Finkel, Dept. of Molecular Biology.

"Interdisciplinary USC Program in Microbiology."

Tomlinson Holman, School of Cinematic Arts and Joanna Demers, Thornton School of Music.
"Center for Sound at USC."

Toke Hoppenbrouwers, Dept. of Pediatrics, and Michael Khoo, Dept. of Biomedical Engineering.
"Late Emergence of Circadian Heart Rhythm in Indonesian Infants."

Tzung Hsiai, Department of Biomedical Engineering, Fengzhu Sun, Department of Biological Sciences, Kelvin Davies, School of Gerontology, and Mark Barr, Department of Surgery.
"Cardiovascular Research Core at USC."

Andrea Kovacs, Dept. of Pediatrics, Kathleen Johnson, School of Pharmacy, and Roseann Mulligan, School of Dentistry.
"USC Maternal, Child and Adolescent International Family Centers."

Daniel Lidar, Dept. of Chemistry, Stephan Haas, Dept. of Physics, and Todd Brun, Dept. of Electrical Engineering.
"Center for Quantum Information Science and Technology."

Valter Longo, School of Gerontology, Michael Lieber, Dept. of Biochemistry, and Lucio Comai, Dept. of Molecular Microbiology.
"Role of DNA Repair Proteins in Age-dependent DNA damage and cancer."

Charles McKenna, Dept. of Chemistry, Parish Sedghizadeh, School of Dentistry, and Stan Louie, School of Pharmacy.
"USC Center for the Study and Treatment of Bone Related Disorders."

Gerard Medioni, Department of Computer Science, and Scott Fisher, School of Cinematic Arts.
"USC Games Institute."

Sarnoff Mednick, Department of Psychology and George Simpson, Department of Psychiatry.
"A Prospective Study of Aging and Schizophrenia-Spectrum Disorders."

Shri Narayanan, Dept. of Electrical Engineering, Robert Rueda, School of Education, Gayla Margolin, Dept. of Psychology, and Jo Ann Farver, Dept. of Psychology.
"Interdisciplinary Technology Center for Child-Centric Societal Applications".

Robert Seeger, Department of Oncology, Anat Erdreich-Epstein, Department of Pediatrics, and Antonio Ortega, Department of Electrical Engineering.
"Biology and Therapy of Pediatric Brain Tumors."

Penelope Trickett, School of Social Work, and Carol Prescott, Department of Psychology.
"Investigating How Genes Interact with Child Abuse and Neglect to Influence Mental Health."

Jesse Yen, Dept. of Biomedical Engineering, Brent Liu, Dept. of Radiology, and Shirin Towfigh, Dept. of Surgery.
"Use of Ultrasound for Image-Guided Surgery".

2006-07 Interdisciplinary Awards

Amy Barrios, Department of Chemistry and Nunzio Bottini, Department of Orthopaedics.
"Imaging Protein Tyrosine Phosphorylation In Vivo."

Stephen Cronin, Department of Electrical Engineering-Electrophysics, and Chester Koh, Department of Urology, Children's Hospital Los Angeles.
"Application of Nanotechnology to Direct the Growth of Engineered Bladder and Kidney Tissue from Stem Cells."

George Salem, Department of Biokinesiology & Physical Therapy (Principal Investigator) and Giselle Petzinger, Department of Neurology.
"The Influence of Fixed and Changing Environmental Stimuli on Walking and Freezing Behavior in Persons with Parkinson's Disease."

Roger Zimmermann, Integrated Media Systems Center, Viterbi School of Engineering, Margaret McLaughlin, Annenberg School of Communication, Shri Narayanan, Departments of Electrical Engineering, Linguistics and Computer Science, and Carolee Winstein, Department of Biokinesiology and Physical Therapy.
"User-centric Patient/Clinician Distribution Platform with Tele-Rehabilitation Application Case Study."

2007 Individual Awards

Aziz-Zadeh, Lisa. Assistant Professor of Occupational Sciences, School of Dentistry and USC Brain and Creativity Institute.
"Neural Basis for the Perception of Prosody"

Betancor, Orlando. Assistant Professor of Spanish, CLAS.
"The Life of Metals in Potosi"

Chen, Yong. Assistant Professor of Industrial & Systems Engineering, Viterbi.
"Designing Complex Internal Structures for Rapid Manufacturing"

Lee, Eun Jin. Research Assistant Professor of Biomedical Engineering, Viterbi.
"Visual Controls in Retinal Development"

Ley, Eric. Assistant Professor of Surgery, KSOM.
"Increased Receptor Tyrosine Kinase Expression in Colon Cancer"

Li, Aimin. Assistant Professor, OB/GYN, KSOM.
"Effects of 17-a Hydroxyprogesterone Caproate on Infection-Induced Preterm Birth"

Mayer, Oliver. Assistant Professor of Playwriting, School of Theatre.
"Six-Play Thematic Cycle"

Mehrian-Shai, Ruty. Assistant Professor of Biochemistry, KSOM.
"Oligodendroglioma miRNA Profiling and Treatment Response"

Pollard, Christine. Assistant Professor of Biokinesiology, School of Dentistry.
"Mechanisms of Articular Cartilage Changes Following Anterior Cruciate Ligament Reconstruction: Effect of Various Surgical Procedures"

Porter, Anne. Assistant Professor of Religion, CLAS.
"Community and Cosmology; Participatory Political Practice In Ancient Mesopotamia"

Towfigh, Shirin. Assistant Professor of Surgery, KSOM.
"Evaluation of Wound Probing to Reduce Wound Infection in Contaminated Wounds"

Zhou, Yan. Assistant Professor, Center for Craniofacial Molecular Biology, School of Dentistry.
"Human Embryonic Stem Cells and Neural Crest Osteogenesis"

2006 Individual Awards

Steven Anderson, Interactive Media Division, School of Cinema-Television.
"Open Source Scholarship: Innovations in Digital Research, Publication and Pedagogy."

Bettine Birge, Department of East Asian Languages and Cultures.
"Marriage and the Law in Mongol-Yuan China."

Samantha Butler, Department of Biological Sciences.
"Mechanisms of Axon Guidance in the Developing Spinal Cord."

Meiling Cheng, School of Theatre.
"Beijing Xingwei: Time-Based Experimental Art in China."

Sarah Gualtieri, Department of History.
"Race and Identity Among Arab Immigrants in the United States."

Alexandra Hammond-Isfahani, Department of Spanish and Portuguese.
"White Negritude: Race, Writing, and Brazilian Cultural Identity."

Young-Kwon Hong, Department of Surgery.
"A Novel Anti-Lymphangiogenic Therapy Against Kaposi's Sarcoma."

Jane Iwamura, Departments of Religion & American Studies.
"Altered States: A Cultural History of the Japanese American Home Shrine."

Elsi Kaiser, Department of Linguistics.

"Investigating the Effects of Discourse Factors on Real-Time Pronoun Interpretation."

Mohammad Pashmforoush, Department of Medicine.

"Defining the Molecular Pathways for Cardiac Conduction Cell Development."

Judd Rice, Department of Biochemistry and Molecular Biology.

"Identification of Histone H3 Lysine 9 Methyl-Specific Binding Proteins."

James Spindler, School of Law.

"Do Mandatory Disclosure Rules Result in Better Information for the Marketplace?"

Bangyan Stiles, Department of Molecular Pharmacology and Toxicology.

"The Mechanisms of PTEN Regulated B-cell Regeneration."

Antonia Szabari, Departments of French and Italian and Comparative Literature.

"Less Rightly Said: Scandalous Words in the French Reformation."

Maria Villacres, Department of Pediatrics.

"Role of Single Nucleotide Polymorphisms on T-cell Responses Following HIV Treatment."

Song Guo Zheng, Department of Medicine.

"CD4+CD25+ Regulatory T-cells Generated Ex Vivo Cure Systematic Lupus Erythematosus."